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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|-------------------------|------------------|
| 09/652,968 | 08/31/2000 | Vishnu K. Agarwal | 98-0616.12 | 4756 |
| 7590 03/26/2004 | | | EXAMINER | |
| EDWARDS W. BULCHIS, ESQ. DORSEY AND WHITNEY LLP U.S. BANK CENTRE, 1420 FIFTH AVENUE SUITE 3400 SEATTLE, WA 98101 | | | DIAZ, JOSE R | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2815 | |
| | | | DATE MAILED: 03/26/2004 | 4 |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | ~ | | | | | |
|--|--|---|--|--|--|--|
| | Application No. | Applicant(s) | | | | |
| | 09/652,968 | AGARWAL, VISHNU K. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | José R Díaz | 2815 | | | | |
| The MAILING DATE of this communication apperiod for Reply | opears on the cover sheet | with the correspondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b). | .136(a). In no event, however, may oply within the statutory minimum of t d will apply and will expire SIX (6) Ma oute, cause the application to become | a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on 03 | March 2004. | ··· | | | | |
| 2a) ☐ This action is FINAL. 2b) ☑ This action is non-final. | | | | | | |
| 3) Since this application is in condition for allow closed in accordance with the practice under | | | | | | |
| Disposition of Claims | | | | | | |
| 4) ☐ Claim(s) 43,78,84,86 and 87 is/are pending in 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 43,78,84,86 and 87 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and are subject. | rawn from consideration. | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the left. | ccepted or b) objected to objected to object of the drawing of the | ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d). | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document of the priority document of the priority document of the certified copies of the certified cop | nts have been received. nts have been received in iority documents have been eau (PCT Rule 17.2(a)). | Application No en received in this National Stage | | | | |
| Attachment(a) | • | | | | | |
| Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date | Paper N | v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152) | | | | |

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DETAILED ACTION

Allowable Subject Matter

The indicated allowability of the amended claims 43 and 78 is withdrawn in view of the newly discovered references to Wertheimer et al. and Howard. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 43, 78, 84 and 86-87 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wertheimer et al. (US Pat. No. 4,599,678) in view of Howard (US Pat. No. 6,350,706 B1).

Regarding claims 43, 78, 84 and 86-87, Wertheimer et al. teaches a method of passivating a multilayer conductive structure, comprising: layering a first conductive material (3) (see fig. 1); introducing said first conductive material (3) to an organosilicone material (5) (see fig. 1 and col. 4, lines 4-12); and layering a second conductive material (7) over said first conductive material (3) (see fig. 1).

However, Wertheimer et al. fails to teach that the organosilicone material is methylsilane and directing ultraviolet light toward the methylsilane.

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Howard teaches that it is well known in the art to use methylsilane as the organosilicone material, and to direct ultraviolet light toward the methylsilane (see col. 5, lines 15-17, 20-25, and 30-39). In addition, Howard teaches that it is well known in the art adjust the power of the irradiation step as desired (see col. 10, lines 5-10). Thus, it would have been obvious to one of ordinary skill in the art to apply the UV energy at a power level ranging from about 50-3000 watts, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or working ranges involves only routine skill in the art. In re Huang, 40 USPQ2d 1685,1688(Fed. Cir. 1996) citing *In re Aller*, 105 USPQ 233., 235 (CCPA 1955).

Wertheimer et al. and Howard are analogous art because they are from the same field of endeavor as applicant's invention. At the time of the invention it would have been obvious to a person of ordinary skill in the art to include the steps of introducing the first conductive material to methylsilane and directing ultraviolet light toward the methylsilane. The motivation for doing so, as is taught by Howard, is reducing the number of processing steps (col. 1, lines 60-63). Therefore, it would have been obvious to combine Howard with Wertheimer et al. to obtain the invention of claims 43, 78, 84 and 86-87.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Li et al. (US Pat. No. 6,156,674) discloses a treatment using methylsilane (see abstract and col.1, lines 9-12).

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Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to José R Díaz whose telephone number is (57.1) 272-1727. The examiner can normally be reached on 9:00-5:00 Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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